

Author Index

- Adams, S. R., 859
- Andrews, G. R., 923
- Annevelink, J., 757
- Appel, A. W., 417
- Appelbe, B., 197
- Ardö, A., 291
- Atkinson, M. P., 171
- Bishop, J. M., 859
- Bishop, M., 729
- Bovey, J. D., 647
- Bracha, G., 783
- Briggs, J. S., 439
- Broom, M. A., 561
- Brown, C. A., 105
- Bullers, Jr., W. I., 701
- Butler, G., 117
- Casey, L. M., 741
- Chan, F. T., 227
- Chen, T. Y., 227
- Cole, R., 387
- Colvin, M. A., 885
- Connolly, M., 533
- Cormack, G. V., 413
- Cowie, J. R., 719
- Crowe, M. K., 455
- Daunov, N., 187
- Davidson, J. W., 801
- Davis, M., 61
- Dewhurst, S. C., 503
- Dewilde, P., 757
- Engmann, R., 623
- Fairbairn, J., 379
- Foxley, E., 485
- Fraser, C. W., 801
- Gammage, N. D., 741
- Glaser, H. W., 1
- Gondzio, M., 215
- Gorlen, K. E., 899
- Gudes, E., 783
- Gutknecht, J., 469
- Hansen, P. B., 29, 267
- Hayashi, T., 17
- Honeyman, P., 51
- Hopkins, T. R., 561
- Horspool, R. N., 369, 413
- Huang, J. C., 159
- Hughes, J. G., 533
- Jalote, P., 847
- Kamel, R. F., 741
- Katzenelson, J., 79
- Kendall, M. J., 117
- Koopman, P. W. M., 609
- Kourie, D. G., 423
- Kulkarni, K. G., 171
- Levy, M. R., 369
- Lins, R. D., 547
- Lirov, Y., 187
- Lord, S. P., 575
- McDonald, C. S., 635
- Messinger, E., 61
- Meyer, C., 61
- Miller, B. P., 277
- Mulders, M. A., 521
- Munakata, T., 399
- Parseghian, P. E., 51
- Pashtan, A., 309
- Perrott, R. H., 663
- Pike, R., 813
- Powell, M. L., 277
- Powell, M. S., 241
- Presotto, D. L., 277
- Pritchard, D. J., 859
- Purdin, T. D. M., 923
- Purdom, Jr., P. W., 105
- Rasmussen, J. B., 197
- Reynolds, C. F., 513
- Roper, M., 135
- Rowe, L. A., 61
- Schlichting, R. D., 923
- Sewry, D. A., 521
- Smith, J. B., 5
- Smith, P., 135
- Spirakis, C., 61
- Stepney, S., 575
- Strominger, A., 79
- Supowit, K. J., 417
- Thimbleby, H., 351
- Thompson, P., 1
- Tuan, A., 61
- van Biljon, W. R., 521
- van Hoeve, F., 623
- van Katwijk, J., 319
- Wadler, P., 595
- Weaver, A. C., 885
- Weber, M., 345
- Weiss, S. F., 5
- Yeh, D. Y., 399
- Zarea-Aliabadi, A., 663

Key Word Index

Abstract data store, 241
Abstract data type, 847
Abstract data types, 757
Access control, 575
Ada, 197, 291, 319, 741
Ada tasking, 859
Addressing, 387
Algebraic simplification, 105
Application generation, 623
Automatic program construction, 187
Automatic programming, 623
Axiomatic specifications, 847

Back-end, 291
Berkeley Unix, 923
Breakpoint, 215

C, 503
C++, 503
C++ programming language, 899
Caches, 813
Categorical combinators, 547
Code generation, 319, 801, 417
Code optimization, 417
Colour, 513
Command interpreters, 685
Command language, 783
Communicating agents, 29, 267
Communication, 117
Compilation techniques, 469
Compile-time comments, 79
Compiler extension, 533
Compilers, 319, 801
Complexity, 547
Compression, 413
Computer-aided design, 783
Concurrency, 859
Concurrent programming, 29, 267
Conditional breakpoint, 215
Cricket, 439
Cross development, 663
CSP, 423

DAPLEX, 171
Data dictionary, 187
Data flow analysis, 227
Data management, 757
Data structures, 241
Data types, 241
Database management systems, 187

Database programming language, 533
dBase III, 701
Debugger, 215
DEMOS, 277
Destructor, 503
Dictionaries, 719
Digital typesetting, 17
Direct implementation, 847
Directed graph layout algorithms, 61
Distributed operating system(s), 277, 741
Distributed programming, 859
Distributed systems, 923
Dynamic binding, 899
Dynamic compilation, 455

Electronic mail, 51
Encapsulation, 899
Enhanced C, 79
Executable specifications, 309
Execution monitor, 729
Expression trees, 417
Extensible syntax, 379

Fault tolerance, 345
File replication, 923
File systems, 923
Formal model, 575
Format grammar, 5
Fortran 77, 561
Full-text retrieval, 5
Functional data model, 171
Functional languages, 595
Functional programming, 379, 547, 609, 685

Garbage collection, 1, 595
Graphical workstation, 647
Graphics workstation, 561

Hashing, 413
Heterogeneity, 387

ICL PERQ, 561
Incremental compilation, 455
Inheritance, 899
Input/output channels, 29
Instruction-level simulator, 309
Interactive debugging, 647
Interactive environments, 685
Interactive programs, 609
Interactive query language, 171

- Interconnection, 387
Intermediate language, 663
Interpreter, 663
Interrupts, 197
JSP, 135
Knuth-Bendix procedure, 105
Lambda calculus, 547
Language, 485
Language implementation, 267
Language syntax, 513
Lazy evaluation, 595, 609
Left outer join, 701
Lexical analysis, 369
Links, 277
List processing, 1
Local area networks, 741
Location transparency, 923
LR-parsing tables, 413
Macro data abstractions, 79
Matching, 105
Master-detail records, 701
Message systems, 885
Message-based, 277
Metadata, 171
MicroCODIL, 513
Microcomputer, 215
Modula-2, 469
Monitor, 117
Multi-microprocessors, 859
Multiple sequential lists, 399
Multiple stacks, 399
Multiprocessing, 345
Music, 485
Network(s), 51, 277, 387, 575
Network data bases, 187
Numerical software, 561
Object-oriented, 757
Object-oriented programming, 623, 899
Operating system, 345
OS/MVS environment, 17
Parallel programming, 117
Parsing, 379
Pascal, 227, 439
Patching, 729
Pattern-matching code generator, 521
Peep-hole optimization, 801
Persistent data, 241
Persistent programming, 171
Polling, 29
Portability, 801
Preprocessor, 663
Process, 117
Profiling, 729
Program browsers, 61
Program call-graphs, 61
Program design, 351
Program generators, 439
Program instrumentation, 227
Program testing, 135, 227
Programming languages, 29, 267
Programming methodology, 159
Prolog, 309, 423, 455, 575
Protocols, 387
PS-algol, 171
Rapid prototyping, 159, 309, 847
Real-time, 197
Recursion, 29
Reference counts, 1
Register allocation, 521, 417
Regular expressions, 813
Regular languages, 369
Relational algebra, 533
Relational database, 701
Relational model, 533
Remote procedure call, 741
Rendezvous, 117, 741
Report generation, 187
Retargeting, 291, 801
Reversing programs, 439
Routing algorithms, 51
Scanners, 369
Scientific software, 561
Scope, 503
Sets, 757
Simulator performance, 309
Single-step, 215
Smalltalk-80 classes, 899
Software engineering, 159, 783
Software tools, 159, 369, 561
Software transportation, 17
Space leak, 595
Sparse matrices, 413
Sports, 439
Storage allocation strategies, 399
Structural testing method, 135
SUN, 561
Supercomputers, 663
Symbol table, 503
Symbolic debugging, 79
Synchronization, 117
System architecture, 469
Tasks, 197
Terminal independence, 351
TEX82, 17
Text editor(s), 609, 813
Text formatting, 5, 17

KEY WORD INDEX

- Token ring networks, 885
Toolpack, 561
Trace generator, 423
Transputers, 859
Tries, 719
Troff, 485
Turner's combinators, 547
Typesetting, 485

Undo, 439, 813
UNIX, 455, 485, 729
UNIX shell, 685
- User friendly systems, 513
User interface(s), 241, 647, 783

Validation, 291
Variable length records, 719
VDU package, 351
Verification and validation, 135
Virtual modes, 859

Windows, 783

Z specification, 575

